

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973162

Luminaire Tested: FLR2-14-70HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-70HE-L935-CP125
Description: 1*4 FLR-2.0 7000 Lumen High Efficacy at 3500CCT & 90 CRI Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

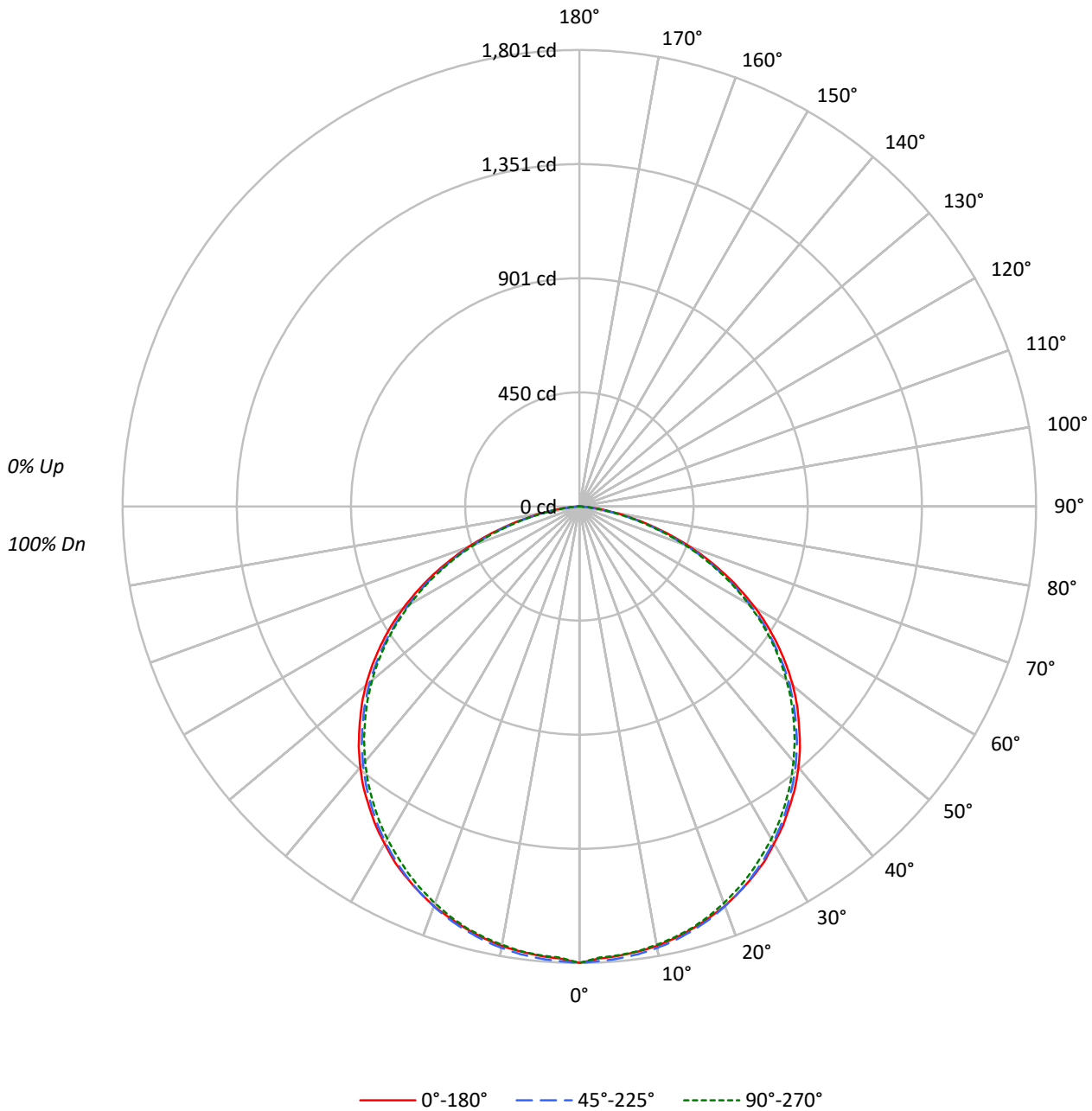
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5040.0 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100															
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71															
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60															
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30					30															
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27					27															
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4846	4846	4846
5°	4808	4836	4802
10°	4812	4833	4798
15°	4805	4824	4795
20°	4805	4809	4770
25°	4793	4785	4740
30°	4773	4752	4706
35°	4748	4711	4664
40°	4721	4663	4616
45°	4663	4598	4550
50°	4603	4518	4465
55°	4487	4381	4340
60°	4312	4192	4156
65°	4039	3920	3877
70°	3642	3495	3466
75°	3054	2899	2868
80°	2218	2067	2010
85°	1173	1034	945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4663 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	3.4
10°-20°	489.8	9.7
20°-30°	744.2	14.8
30°-40°	900.2	17.9
40°-50°	935.5	18.6
50°-60°	837.6	16.6
60°-70°	610.9	12.1
70°-80°	300.8	6.0
80°-90°	50.3	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1404.5	27.9
0°-40°	2304.7	45.7
0°-60°	4077.9	80.9
0°-90°	5040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1801	1801	1801	1801	1801	
5°	1780	1799	1790	1807	1778	169
15°	1725	1740	1731	1746	1721	487
25°	1614	1623	1611	1619	1596	744
35°	1445	1448	1434	1440	1420	905
45°	1225	1224	1208	1210	1196	946
55°	956	948	934	932	925	854
65°	634	627	616	611	609	627
75°	294	288	279	276	276	313
85°	38	36	34	30	31	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1800.7	1800.7	1800.7	1800.7	1800.7
2.5°	1785.1	1805.2	1795.5	1813.4	1781.4
5°	1779.9	1799.2	1790.3	1807.4	1777.6
7.5°	1770.9	1791.0	1781.4	1797.8	1769.4
10°	1761.2	1779.1	1768.7	1785.1	1756.0
12.5°	1744.1	1762.0	1752.3	1767.2	1740.4
15°	1724.7	1740.4	1731.4	1746.3	1721.0
17.5°	1702.3	1717.3	1707.6	1721.0	1695.6
20°	1677.8	1689.7	1679.2	1690.4	1665.8
22.5°	1647.2	1658.4	1647.2	1654.6	1633.0
25°	1614.4	1622.6	1611.4	1618.9	1596.5
27.5°	1579.4	1583.8	1572.7	1578.6	1555.5
30°	1536.1	1541.4	1529.4	1536.9	1514.5
32.5°	1494.4	1497.4	1484.0	1489.9	1469.8
35°	1445.2	1448.2	1434.0	1440.0	1419.9
37.5°	1398.3	1397.5	1382.6	1386.3	1369.2
40°	1343.8	1343.1	1327.4	1330.4	1314.0
42.5°	1287.9	1285.0	1270.1	1271.5	1256.6
45°	1225.3	1223.8	1208.2	1210.4	1195.5
47.5°	1165.0	1160.5	1144.8	1145.6	1132.9
50°	1099.4	1092.7	1079.2	1077.8	1066.6
52.5°	1029.3	1021.9	1006.9	1005.5	997.3
55°	956.3	948.1	933.9	931.7	925.0
57.5°	881.0	870.6	859.4	854.9	849.7
60°	801.2	791.5	778.9	774.4	772.2
62.5°	718.5	708.8	699.1	694.7	691.7
65°	634.3	626.8	615.6	611.2	608.9
67.5°	548.6	541.9	531.4	526.2	525.5
70°	462.9	456.1	444.2	441.2	440.5
72.5°	377.1	371.2	360.0	357.0	357.0
75°	293.7	288.4	278.8	275.8	275.8
77.5°	214.7	210.2	202.7	199.0	199.0
80°	143.1	140.1	133.4	130.4	129.7
82.5°	82.7	81.2	75.3	72.3	73.8
85°	38.0	36.5	33.5	29.8	30.6
87.5°	9.7	8.9	6.7	5.2	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)